PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

INTERNATIONAL SEAR	CIIINO AOTI				
То:				PCT	
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Hannuri Bldg. 219 Naeja-dong, Chongno-gu, Seoul 110-053, Republic of Korea		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)			
·			Date of mailing (day/month/year) 24	AUGUST 2004 (24.08.2004)	
Applicant's or agent's file reference			FOR FURTHER ACTION		
FE241484			See paragraph 2 below		
International application N		International filing date	(day/month/year)	Priority date(day/month/year)	
PCT/KR2004/0	01852	23 JULY 2004 (23.	07.2004)	24 JULY 2003 (24.07.2003)	
International Patent Classi IPC7 H04B 7/155	ification (IPC)	or both national classifica	tion and IPC		
Applicant					
UTStarcom Korea Limited et al					
1 This eninion contains	indications rel	ating to the following item	nc.		
K 7			15.		
Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of unity of invention					
Box No. V	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;				
 	citations and explanations supporting such statement Box No. VI Certain documents cited				
Box No. VII Certain defects in the international application					
Box No. VIII Certain observations on the international application					
International Prelimin other than this one to opinions of this Intern If this opinion is, as p IPEA a written reply	national preliminary Examining be the IPEA an national Searchinovided above, together, where 0 or before the ee Form PCT/IS	Authority ("IPEA") except the chosen IPEA has not ing Authority will not be successive considered to be a writtent appropriate, with amendrexpiration of 22 months from SA/220.	ot that this does not apply tified the International E o considered. opinion of the IPEA, the nents, before the expirat	sidered to be a written opinion of the y where the applicant chooses an Authority Bureau under Rule 66.1bis(b) that written e applicant is invited to submit to the ion of 3 months from the date of mailing ichever expires later.	

Name and mailing address of the ISA/KR



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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/001852

Bo	x No. I Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	b. format of material
ĺ	in wirtten format
	in computer readable form
	c. time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:
:	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/001852

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Novelty (N)	Claims 1-3	YES
	Claims NONE	NO NO
Inventive step (IS)	Claims NONE	YES
	Claims 1-3	NO
Industrial applicability (IA)	Claims 1-3	YES
	Claims NONE	NO

2. Citations and explanations:

1. Citations

D1 : US6125109 D2 : EP0632600 D3 : WOO3026157

2. Explanations

Inventive step of the invention can be denied by one or a combination of two of above documents because of following reasons.

The invention descloses a transmission/reception apparatus that comprises a duplexer and a SAW filter and LNA and antennas. The object of the invention is to suppress transmission signals interference with the reception path by use of bandpass characteristics of the SAW filter.

In comparison with the documents D1 through D3, D1 discloses a transceiver apparatus comprising a SAW filter in order to eliminate or suppress out-of-band interference signals within the reception signal, then to enhance the reception sensibility in the transmission/reception apparatus. D2 and D3 also have similar technical idea to the invention.

So, it will not be difficult for a skilled person in the art to invent the present invention from the disclosure of the D1 through D3.